

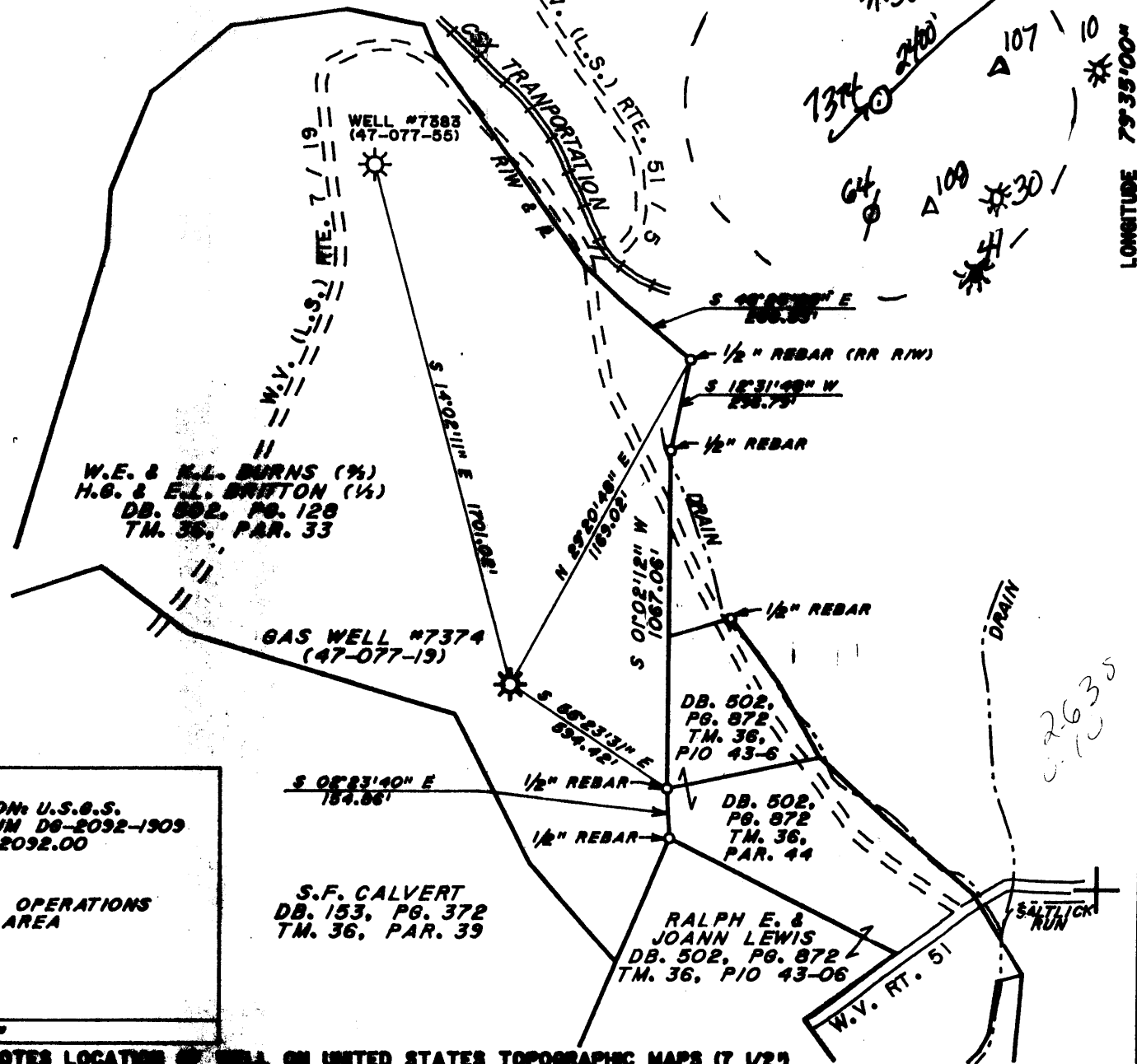
550'

LATITUDE 39°25'00"

39°27'30"

Janice
11/25/96

BALTIMORE & ANNE ARBOR RAILROAD
DB. 2002, PG. 41
TM. 36, PAR. 27



NOTES:
 ELEVATION: U.S.G.S.
 BM DATUM D6-2092-1909
 ELEV. = 2092.00

NO COAL OPERATIONS
 IN THIS AREA

Form map #

S.F. CALVERT
 DB. 153, PG. 372
 TM. 36, PAR. 39

RALPH E. &
 JOANN LEWIS
 DB. 502, PG. 872
 TM. 36, PIO 43-06

DB. 502,
 PG. 872
 TM. 36,
 PIO 43-6

DB. 502,
 PG. 872
 TM. 36,
 PAR. 44

(+) DEMOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS (7 1/2")

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF
 ACCURACY 1:200
 PROVEN SOURCE OF
 ELEVATION SEE ABOVE

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.

(SIGNED) *Edward Nicholson*
 R.P.E. 2236 L.L.S. 730

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE OCTOBER 7, 1996
 OPERATOR'S WELL NO. 7374
 API WELL NO. _____

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE X DEEP SHALLOW
 LOCATION: ELEVATION 2100 WATER SHED SALT LICK RUN

DISTRICT PORTLAND COUNTY PRESTON
 QUADRANGLE TERRA ALTA COORDINATES LAT. 39°25'12" LONG. 79°35'07"

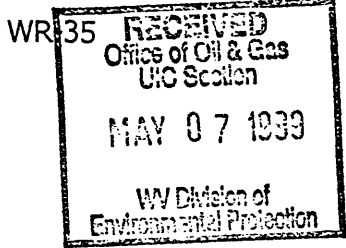
SURFACE OWNER W.E. & K.L. BURNS (3/4) / H.G. & E.L. BRITTON (1/4) ACREAGE _____
 OIL & GAS ROYALTY OWNER SAME AS SURFACE LEASE ACREAGE 49.05
 COAL OWNER _____ LEASE NO. 390

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR
 STIMULATE PLUS OFF OLD FORMATION PERFORATE NEW
 FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) RECONDITION FOR STORAGE
Clear out & plug existing well drilled in 1951

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Chert-Crusher ESTIMATED DEPTH 5,504'
 WELL OPERATOR Columbia Gas Transmission Corp DESIGNATED AGENT RICHARD L. GOTY
 ADDRESS PO Box 1273, Charleston, W.V. 25325-1273 ADDRESS PO Box 1273, Charleston, W.V. 25325-1273

DEEP well

PRESTON COUNTY NAME
 PERMIT 19



04-Dec-96
API # 47- 077-00019-W

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Reviewed AB

Well Operator's Report of Well Work

Farm name: BURNS, WM. & KATHRYN Operator Well No.: TERRA ALTA 7374
 LOCATION: Elevation: 2,190.00' Quadrangle: TERRA ALTA
 District: PORTLAND County: PRESTON
 Latitude: Feet South of 39 Deg. 25 Min. 12 Sec.
 Longitude: Feet West of 79 Deg. 35 Min. 07 Sec.

Compay: COLUMBIA GAS TRANSMISSION
 P.O. BOX 1273
 CHARLESTON, WV 25325-1273
 Agent: RICHARD L. COTY
 Inspector: PHILLIP TRACY
 Permit Issued: 12/04/96
 Well work Commenced: 07/23/97
 Well work Completed: 09/18/97
 Verbal Plugging
 Permission granted on: _____
 Rotary Cable Rig
 Total Depth (feet) 5,504'
 Fresh water depths (ft) See Original Records
 Salt water depths (ft) See Previous
 Is coal being mined in area (Y/N) ? N
 Coal Depths (ft) : See Previous

Casing & Up Tubing Size	Used in Drilling	Left in Well	Cement Fill Cu. Ft.
RE-PERFORATED 4-1/2" SEE BACK FOR DETAILS			
STIMULATION; SEE BACK FOR DETAILS			

OPEN FLOW DATA
 Producing formation ORISKANY Pay zone depth (ft) 5,361' - 5,492'
 Gas : Initial open flow 3343 MCF/d Oil : Initial open flow _____ Bbl/d
 Final open flow 5767 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 505 Days Hours
 Static rock Pressure 2198 psig (surface pressure) after 4 Hours
 Second producing formation _____ Pay zone depth (ft) _____
 Gas : Initial open flow _____ MCF/d Oil : Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For : COLUMBIA GAS TRANSMISSION CORP.
 By : William H. Foraker
 Date : May 7, 1999

MAY 17 1999

PRE 0019 W

WR-35

04-Dec-96

API # 47- 077-00019-W

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

RE-PERFORATED

- Re-perforated on 07-30-97 from 4,970' – 5,396' with 6 shots/ft

STIMULATION

- Acidized on 08-11-97
- Halliburton Coiled Tubing Conveyed -Selective Injection Packer -Acid Job.
- Acidized with 4,830 gals 15% Halliburton FE Acid setting selective injection packer and treating with five foot intervals as follows:
5,388'-5,393', 5,383'-5,388', 5,378'-5,383', 5,373'-5,378', 5,368'-5,373', 5,363'-5,368', 5,305'-5,310', 5,300'-5,305', 5,282'-5,287', 5,280'-5,282', 5,271'-5,276', 5,258'-5,263', 5,253'-5,258', 5,248'-5,253', 5,243'-5,248', 5,238'-5,243', 5,233'-5,238', 5,228'-5,233', 5,205'-5,210'.

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
WELL RECORD

Permit No. Pres. 19
Kingwood Quad.

Gas Well
CASING & TUBING

Company Wm. E. Snee and Orville Eberly
Address 208 Union Trust Bldg., Uniontown, Pa.
Farm S.F. Calvert Acres 79
Location Salt Lick Creek
Well No. 1 Elev. 2190
District Portland Preston County
Surface S.F. Calvert, Masontown, W.Va.
Mineral Same
Commenced Dec. 1, 1950
Completed Mar. 13, 1951
Not shot
Open flow 75/10ths W in 3"
Volume 820,000 C.F.
Rock Pressure 1990 lbs. 10 hrs.

13	16"6	All
10	405'8	"
7	OD 5190'	"
2	5448'	"

Casing cemented:
7 OD cemented
with 50 sacks
2-11-51

No coal present

Clay	0	16
Slate	16	40
Lime	40	55
Slate	55	110
Sand	110	125
Slate	125	220
Lime	220	235
Slate	235	255
Lime	255	280
Slate	280	306
Lime	306	320
Slate	320	375
Lime	375	385
Slate	385	408
Lime	408	420
Slate	420	440
Slate & Shells	440	1578
Benson Sand-Brown	1578	1600
Slate & Shells	1600	3661
Brown Shale	3661	3710
Grey Shale	3710	3800
Slate & Shells	3800	4215
Brown Shale	4215	4595
Black Shale	4595	4695
Lime Tully	4695	4715
Slate & Shells	4715	5136
Lime	5136	5156
Black Slate Marcellus	5156	5187
Brown Break	5187	5190
Lime Onondaga	5190	5223
Chert	5223	5367
Sand Oriskany	5367	5452
Lime - Head	5452	5493 T.D.

5190
2190

-3000

Gas 5260-65 }
5277-88 } crest
5290-92 }
5370-72 }
5422 } Torisk

495

5452
2190

3262

5367
2190

-3177

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

07719 Frac.

Well Operator: COLUMBIA GAS TRANSMISSION CORPORATION 10450 637

22930

Operator's Well Number: Terra Alta Stg # 7374 (API 47-077-00019) 3 Elevation: 2,190 feet

Well type: (a) Oil / or Gas X /
(b) If Gas: Production / / Underground Storage X /
Deep X / Shallow /

Issued 12/04/96
Expires 12/04/98

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Office of Oil & Gas
Permitting
Environmental Protection

Proposed Target Formation (s): Chert-475
Oriskany

Proposed Total Depth: 5,504 feet

Approximate fresh water strata depths: NONE RECORDED

Approximate salt water strata depths: NONE RECORDED

Approximate coal seam depths: NONE RECORDED

Does land contain coal seams tributary to active mine? Yes / / No X /

Proposed Well Work: Columbia proposes to clean the well out to total depth with coiled tubing. The well will be logged with cased and open hole logs. The well will be re-perforated, acidized or fractured depending on log results. Cleaned up, flow tested & place back in service.

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill - up (cu. ft.)
conductor	13"			16'6"	16'6"	not recorded
Fresh Water	10"			405'6"	405'6"	not recorded
Coal						
Intermediate	7"			5,190'	5,190'	50 sks cmt
Production	4-1/2"	N-80 & J-55	12.6#	5,535'	5,535'	two stg 535sks cmt
Tubing						
Liners						

PACKERS : Kind None
Sizes _____
Depths set _____

01162125/37

For Division of Oil and Gas Use Only
 Fee (s) paid: Well Work Permit Reclamation Fund WPCP Agent
 Plat WW - 9 WW - 2B Bond (Type)

